

CLAIMS

1. A method of manufacturing a honeycomb structure, comprising:
adding water to silicon carbide particles and kneading the same into
5 a kneaded raw material, the silicon carbide having an average particle
diameter of not less than 2 μm and not more than a honeycomb rib
thickness $\times 0.23$ and with a logarithmic standard deviation of a particle size
distribution of not less than 0.15 and not more than 0.40;
extruding the kneaded raw material by extrusion into a honeycomb
10 extruded body; and
drying, calcining, and firing the extruded body.
2. The method of manufacturing a honeycomb structure according to
claim 1, wherein the logarithmic standard deviation of the particle size
15 distribution was not less than 0.17 and not more than 0.40.
3. The method of manufacturing a honeycomb structure according to
any one of claims 1 and 2, wherein a content of the silicon carbide is not
less than 50 wt%.
- 20 4. The method of manufacturing a honeycomb structure according to
any one of claims 1 to 3, wherein a proportion of particles with a particle
diameter of not less than half the honeycomb rib thickness is less than 5
wt%.

5. Silicon carbide particles for manufacturing a honeycomb structure by extrusion, wherein

an average particle diameter is not less than 2 μm and not more than a honeycomb rib thickness $\times 0.23$ and a logarithmic standard deviation of a

5 particle size distribution is not less than 0.15 and not more than 0.40.